

WHAT IS CLAIMED IS:

1. A process of refreshing data on a storage medium comprising steps of:
 - reading data from a first location on the storage medium;
 - storing the data at a second location; and
 - storing the data at the first location.
2. The process of claim 1, further including:
reading the data from the second location before storing the data
at the first location.
3. The process of claim 1, wherein the first and second locations are first and second physical locations and a logical address is initially associated with the first physical location, and the step of storing the data at the second location includes:
changing the association of the logical address to the second physical location.
4. The process of claim 3, wherein the step of storing the data at the first location includes:
changing the association of the logical address to the first physical location.
5. The process of claim 3, further including:
reading the data from the second location before storing the data
at the first location.

6. The process of claim 5, wherein the step of storing the data at the first location includes:

changing the association of the logical address to the first physical location.

7. The process of claim 3 performed iteratively on the basis of successive logical block addresses, and wherein if the step of storing the data at the first location is interrupted,

reading the data from the second location, and
storing the read data to the first location.

8. The process of claim 7, wherein the step of storing the data at the first location includes:

changing the association of the logical address to the first physical location.

9. A computer useable medium having a computer readable program embodied therein for addressing data to refresh data stored on a storage medium, the computer readable program comprising:

first computer readable program code for causing the computer to read data from a first location on the storage medium;
second computer readable program code for causing the computer to store the data at a second location; and
third computer readable program code for causing the computer to store the data at the first location.

10. The computer useable medium of claim 9, wherein the third program code includes:

computer readable program code for causing the computer to read the data from the second location, and
computer readable program code responsive to the read data from the second location to cause the computer to store the data at the first location.

11. The computer useable medium of claim 9, wherein the first and second locations are first and second physical locations and a logical address is initially associated with the first physical location, and the second program code includes:

computer readable program code for causing the computer to change the association of the logical address to the second physical location.

12. The computer useable medium of claim 11, wherein the third program code includes:

computer readable program code for causing the computer to change the association of the logical address to the first physical location.

13. The computer useable medium of claim 11, further including:

computer readable program code for causing the computer to read the data from the second location before executing the computer readable program code that causes the computer to store the data at the first location.

14. The computer useable medium of claim 13, wherein the first computer readable program code includes:

computer readable program code for causing the computer to change the association of the logical address to the first physical location.

15. The computer useable medium of claim 11, wherein the computer readable program is executed iteratively on the basis of successive logical block addresses, and the computer readable program further includes:

computer readable program code responsive to interruption of the execution of the first computer readable program code for causing the computer to read the data from the second location, and

computer readable program code for causing the computer to store the read data to the first location.

16. The computer useable medium of claim 15, wherein the computer readable program code that causes the computer to store the data at the first location includes:

computer readable program code for causing the computer to change the association of the logical address to the first physical location.

17. A data storage device comprising a magnetic disc drive having a rotatable magnetic disc medium containing a plurality of addressable storage sectors for storing data, a table associating logical addresses to physical addresses of the storage sectors, and a processor for controlling operation of the disc drive, the disc drive containing executable program code to refresh data stored in storage sectors, the executable program code including:

first program code responsive to a logical block address for causing the processor to read data from a first location on the storage medium;

second program code for causing the processor to store the data at a second location;

third program code responsive to the successful storage of the data at the second location for causing the processor to change the association of the logical address to the second location;

fourth program code responsive to the logical block address for causing the processor to read the data from the second location;

fifth program code responsive to the data read from the second location to cause the processor to store the data at the first location; and

-16-

sixth program code responsive to the successful storage of the data at the first location for causing the processor to change the association of the logical address to the first location.

18. The data storage device of claim 17, wherein the executable program code includes program code for iteratively executing the first through sixth program codes for each logical block address.